

USGS Patuxent Wildlife Research Center Biennial Science Meeting
14-16 February 2006

National Wildlife Visitors Center
10901 Scarlet Tanager Loop,
Laurel, MD 20708-4027
301-497-5760

AGENDA

(updated Feb. 1, 2006)

All presentations in Auditorium; breaks & lunch in Multi-purpose Room

Tuesday, 14 February 2006

- 7:30-8:30 AM **Registration** (in NWVC lobby), **All Sessions poster set-up**
- 8:30 AM - **Concurrent poster display (Session I)**
6:30 PM Session Coordinator: Pete Lasier
- 8:30-10:00 AM **Welcome and Overview**
- " 8:30 Science Council remarks (*Clint Moore*)
 - " 8:40 Welcome and Introductory remarks (*Judd Howell*)
 - " 8:55 Refuge Update (*Brad Knudsen*)
 - " 9:10 USGS Comments
 - Eastern Region (*David Bornholdt*)
 - USGS Biology (*Susan Haseltine*)
- 10:00-10:30 **Morning Break and poster viewing**
- 10:30-12:00 PM **Presentation of PWRC Projects I – Contaminant Biology**
Session Coordinators: Parley Winger and Dave Hoffman
- " 10:30 Profiling of gene induction in response to contaminants or other treatments
 - *Natalie Karouna-Renier*
 - " 11:00 Effects of mercury on kestrel reproduction - *Michael Koterba*
 - " 11:20 Waterfowl vanadium studies - *Barnett Rattner*
 - " 11:40 Exposure of deer to lead due to mining - *Nelson Beyer*
- 12:00-1:30 PM **Lunch and poster viewing**
- 1:30-3:00 PM **Science Frontiers: Hierarchical Modeling**
Session Coordinators: Bill Link and Andy Royle

- " 1:30 **Keynote Speaker: *William Link*** (Patuxent Wildlife Research Center) – Hierarchical Models: New frontiers in wildlife data analysis.
- " 2:10 Using hierarchical models for estimation of population change - *John Sauer*
- " 2:35 Hierarchical models for avian point count and anuran calling surveys - *Andy Royle*
- 3:00-3:30 PM **Afternoon Break and poster viewing**
- 3:30-5:00 PM **Presentation of PWRC Projects II – Wildlife and Invasives**
Session Coordinators: Brian Underwood and Larissa Bailey
- Current Wildlife Issues
- " 3:30 Potential impacts of chronic wasting disease in white-tailed deer on DOI lands - *Brian Underwood*
- " 3:45 Assessing bird distribution patterns in regions with wind power potential - *Deanna Dawson, Tim Jones, and Allan O'Connell*
- " 4:00 Habitats and food of Atlantic coast seaducks - *Matt Perry, Alicia Berlin, David Kidwell, and Peter Osenton*
- Decision Making / Adaptive Management
- " 4:15 Adaptive management at PWRC: Past, present and future - *Michael Runge and Jim Nichols*
- 4:30 Applications of decision theory under the Endangered Species Act - *Jennifer Arnold and Michael Runge*
- " Occupancy models
- " 4:45 Occupancy models: Broad applications to science and monitoring - *Allan O'Connell*
- 5:00-8:00 PM **Poster viewing (All Sessions) and Social**
Session Coordinators: Pete Lasier (1), Mark Wimer (2), and Jeff Spendelow (3)

Wednesday, 15 February 2006

- 07:30-08:30 AM **Registration** (in NWVC lobby)
- 8:30 AM - **Concurrent poster display (Session II)**
5:00 PM Session Coordinator: Mark Wimer
- 8:30-10:00 AM **Emerging Issues: Ecology of Wildlife Diseases**
Session Coordinators: Howard Ginsberg, Glenn Olsen, and Caldwell Hahn

- " 8:30 Introduction to health research in USGS – *Session Coordinators*
- " 8:35 **Keynote speaker: *André Dhondt*** (Cornell Univ. Lab of Ornithology)-
Mycoplasmal conjunctivitis in House Finches: the dynamics of an
emerging disease in an introduced host.
- " 9:10 Discussion: PWRC role in study of invasive pathogens of wildlife –
Howard Ginsberg, Moderator

Related PWRC projects

- " 09:20 Transmission dynamics of vector-borne pathogens - *Howard Ginsberg*
- " 09:30 Susceptibility and transmission of WNV: Field research and research on
captive PWRC birds - *Caldwell Hahn*
- " 09:40 Bird health in Chesapeake Bay - *Barnett Rattner*
- " 09:50 H5N1 in wild and domestic birds in China - *Diann Prosser*

10:00-10:30 AM Morning Break and poster viewing

10:30-12:00 PM Presentation of PWRC Projects III – Systematics; Status and Trends
Session Coordinators: Monica Tomosy and Neal Woodman

- " 10:30 Introduction - *Neal Woodman*
- " 10:35 Program accomplishments - *Graham Smith and Marshall Howe*
- " 10:45 Systematics - *Neal Woodman*
- " 10:55 Molecular systematics of birds - *Terry Chesser*
- " 11:15 The FWS R3/R5 Impoundment study: a project of the Refuge
Cooperative Research Program - *James Lyons*
- " 11:30 Estimating distribution and amphibian occupancy of vernal pool breeding
habitat - *Larissa Bailey*
- " 11:45 Modeling anuran detection and site occupancy for anuran calling survey
routes in Maryland - *Linda Weir*

12:00 -1:30 PM Lunch and poster viewing

1:30-3:00 PM Chan Robbins Symposium Part I: Breeding Bird Survey
Session Coordinators: Mike Erwin, Marshall Howe, and John R. Sauer

- " 1:30 Introduction - *Mike Erwin*
- " 1:35 The overall contributions of Chan Robbins to ornithology and bird
conservation in the Americas - *Fran James*
- " 2:00 Patuxent's early years with the BBS development - *Danny Bystrak*
- " 2:10 BBS: The Canadian Wildlife Service perspective - *Tony Erskine*
- " 2:30 The modern BBS and its evolution over the past 20 years - *Keith Pardieck
and Bruce Peterjohn*
- " 2:45 BBS data application: Trends and other lessons learned - *John Sauer*

3:00-3:30 PM Afternoon Break and poster viewing

3:30-5:00 PM **Chan Robbins Symposium Part II: Habitat Fragmentation, Tropical Studies, Atlases, and Christmas Bird Counts**

Session Coordinators: Mike Erwin, Marshall Howe, and John R. Sauer

- " 3:30 Tropical bird work in Guatemala - *Barb Dowell*
- " 3:40 Fragmentation studies in Maryland - *Deanna Dawson*
- " 3:55 Wandering biologists and albatrosses of Midway: 50 years later - *Bill Kendall*
- " 4:10 Christmas Bird Count data and analysis - *Geoff LeBaron*
- " 4:30 Breeding Bird Atlases and their analyses - *Mark Wimer and Bruce Peterjohn*
- " 4:45 Personal reflections on 60 years at Patuxent - *Chan Robbins*

5:30-8:30 PM **Robbins Retirement Banquet (Rip's Country Inn; 301-805-5901)**

Session Coordinators: Graham Smith and Mike Erwin

Rip's is located at the junction of Routes 197 & 301. From the NWVC exit right onto 197; then proceed on 197 through Bowie [past Hampton Inn] until 197 dead ends into 301. There are three lanes – one left turn, one left or straight, one right turn; proceed straight through the intersection into the Rip's restaurant parking lot.

Thursday, 16 February 2006

7:30-8:30 AM **Registration** (in NWVC lobby)

8:30 AM - **Concurrent poster display (Session III)**

4:00 PM Session Coordinator: Jeff Spendelow

8:30-10:00 AM **Science Frontiers: Restoration**

Session Coordinators: Jeff Marion, Dick Hammerschlag, Hank Pattee, and Nelson Beyer

Habitat Restoration

- " 8:30 **Keynote speaker: Patrick Kangas** (Univ. Maryland) – The need for more ecology in restoration ecology.
- " 9:10 Poplar Island in Chesapeake Bay: Great expectations for restoration - *Mike Erwin*
- " 9:20 Documenting wetland restoration in the Anacostia - *Dick Hammerschlag*
- " 9:30 Unassisted recovery at Annapolis Rocks: The Appalachian Trail's most severely impacted campsites - *Jeff Marion*

Avian Restoration

- " 9:40 Whooping crane restoration - *Glenn Olsen*
- " 9:50 Bird response to method and location of bottomland hardwood restoration
- *Daniel Twedt*

10:00-10:30 AM **Morning Break and poster viewing**

10:30-12:00 PM **Presentation of PWRC Projects IV – Ecosystems**

Session Coordinators: Don Cahoon and Mary Freeman

Theme: Understanding and predicting ecosystem responses to threats and stressors (i.e., natural and human-induced changes in the environment)

- " 10:30 Introduction - *Don Cahoon*
- " 10:35 Threats to Habitats: Sea-level rise and coastal ecosystems - *Don Cahoon*
- " 10:50 Threats to Habitats: Science for monitoring and managing coastal and wetland ecosystems - *Hilary Neckles*
- " 11:05 Threats to Habitats: Shoreline change and geomorphology - *Cheryl Hapke*
- " 11:20 Community Interactions: Effects of environmental change - *Mary Freeman*
- " 11:40 Community Interactions: modeling species interactions - *Jim Nichols*
- " 11:50 Emerging Issues - *Glenn Guntenspergen*

12:00-1:30 PM **Lunch and poster viewing**

2:30-4:00 PM **All Posters taken down**

1:30-4:00 PM **Special Meetings* and Auditorium Sessions**

- 1:30 Science Ethics Training – *Nancy Baumgartner*
- 2:30 Question-and-answer with Center Director – *Judd Howell*

* *Research Managers and Administrative staff available for individual meetings, as arranged*